

### United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

### NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

12/15/2003

Ron Feece INTERNATIONAL BUSINESS MACHINES CORPORATION Dept. L2PA 5600 Cottle Road San Jose, CA 95193 EXAMINER

KOEHLER, ROBERT R

ART UNIT

PAPER NUMBER

1775

**DATE MAILED: 12/15/2003** 

2

1	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/053 785	01/18/2002	Mike Ming Yu Chen	SJO920000194US1	4281

TITLE OF INVENTION: METHOD FOR ELECTROPLATING A BODY-CENTERED CUBIC NICKEL-IRON ALLOY THIN FILM WITH A HIGH SATURATION FLUX DENSITY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	03/15/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### **HOW TO REPLY TO THIS NOTICE:**

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax

(703) 746-4000

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INSTRUCTIONS: This for appropriate. All further corrindicated unless corrected b maintenance fee notification	respondence including the I below or directed otherwise	smitting the ISSUI Patent, advance ord in Block 1, by (a)	E FEE and PUBLIC lers and notification specifying a new c	OATION FEE (if requois of maintenance fees orrespondence address	nired). Blocks 1 through 4 s will be mailed to the current c; and/or (b) indicating a sepa	hould be completed where correspondence address as arate "FEE ADDRESS" for
	E ADDRESS (Note: Legibly mark-up	with any corrections or t	use Block 1)	papers. Each addition	f mailing can only be used for this certificate cannot be used all paper, such as an assignment	tor any other accompanying
75	90 12/15/2003			have its own certificat	te of mailing or transmission.	
Ron Feece				Ce	rtificate of Mailing or Trans	smission
	BUSINESS MACHI	NES CORPOR	ATION	States Postal Service	his Fee(s) Transmittal is bein with sufficient postage for fir il Stop ISSUE FEE address	st class mail in an envelope
Dept. L2PA				addressed to the Ma	il Stop ISSUE FEE address PTO, on the date indicated be	above, or being facsimile
5600 Cottle Road	•				. 10,011 110 110 110 110 110 110 110 110	(Depositor's name)
San Jose, CA 95193	3					(Signature)
						(Date)
						(Duty)
APPLICATION NO.	FILING DATE	F	IRST NAMED INVEN	NTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/053,785	01/18/2002		Mike Ming Yu Ch	ien	SJO920000194US1	4281
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APPLN. TYPE	SMALL ENTITY					
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KOEHLER,	ROBERT R	1775		205-224000	_	
1. Change of correspondence		ee Address" (37	2 For printing or	the patent front page	list (1) the	
CFR 1.363).	e address of indication of Tr	ce Address (57		3 registered patent		
☐ Change of corresponde	ence address (or Change of C	Correspondence		natively, (2) the name		
Address form PTO/SB/12	22) attached.			a member a registered attorney or 2		
☐ "Fee Address" indicati PTO/SB/47; Rev 03-02 o Number is required.	on (or "Fee Address" Indicator more recent) attached. Use	tion form e of a Customer	attorneys or agen will be printed.	its. If no name is liste	ed, no name 3	
3. ASSIGNEE NAME AND	RESIDENCE DATA TO B	E PRINTED ON T	HE PATENT (print	or type)		
DI EASE MOTE: Unloce	an assignee is identified bed to the USPTO or is being s	low, no assignee da submitted under sep	ata will appear on the parate cover. Comple	e natent Inclusion of a	assignee data is only appropri of a substitute for filing an ass DUNTRY)	ate when an assignment has ignment.
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Please check the appropriate					corporation or other private g	roup entity    governmen
4a. The following fee(s) are	enclosed:	46	Payment of Fee(s):		-alosad	
☐ Issue Fee				nount of the fee(s) is er t card. Form PTO-203		
☐ Publication Fee	Coming				charge the required fee(s), or	credit any overnavment to
Advance Order - # of	Copies		Deposit Account No		(enclose an extra	copy of this form).
Director for Patents is reque	sted to apply the Issue Fee a	nd Publication Fee	(if any) or to re-appl	y any previously paid	issue fee to the application ide	entified above.
(Authorized Signature)		(Date)				
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NOTE; The Issue Fee and other than the applicant; interest as shown by the re	d Publication Fee (if requir a registered attorney or ag cords of the United States P	red) will not be accent; or the assigned atent and Trademar	cepted from anyone ee or other party in k Office.	]		
obtain or retain a benefit	by the public which is to f y is governed by 35 U.S.C.	ile (and by the US 122 and 37 CFR 1.1	PTO to process) an 14. This collection is			
estimated to take 12 minu	tes to complete, including g	athering, preparing	, and submitting the	1		
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# UNITED STATES PATENT AND TRADEMARK OFFICE

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10/053,785	01/18/2002	Mike Ming Yu Chen	SJO920000194US1	4281	
75	590 12/15/2003		EXAM	IINER	
Ron Feece INTERNATIONAL BUSINESS MACHINES CORPORATION			KOEHLER, ROBERT R		
INTERNATIONAL Dept. L2PA	L BUSINESS MACHINES	CORPORATION	ART UNIT	PAPER NUMBER	
5600 Cottle Road San Jose, CA 95193			1775		
			DATE MAILED: 12/15/2003		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 272 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 272 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



# UNITED STATES PATENT AND TRADEMARK OFFICE



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7590 12/15/2003			EXAMINER	
Ron Feece INTERNATIONAL BUSINESS MACHINES CORPORATION			KOEHLER,	ROBERT R
Dept. L2PA	2 BOSINESS MACHINE	S COR ORATION	ART UNIT	PAPER NUMBER
5600 Cottle Road San Jose, CA 95193			1775	
			DATE MAILED: 12/15/2003	

#### Notice of Fee Increase on October 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2003. See Revision of Patent Fees for Fiscal Year 2004; Final Rule, 68 Fed. Reg. 41532, 41533, 41534 (July 14, 2003).

The current fee schedule is accessible from (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2003 (or mailed with a certificate of mailing on or after October 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2003, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

(b) Issue fee for issuing a design patent:

(c) Issue fee for issuing a plant patent:

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)			
	10/053,785	CHEN ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Robert R. Koehler	1775			
The MAILING DATE f this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to and MPEP 1308.	olication. If not included will be mailed in due course. THIS			
<ol> <li>This communication is responsive to <u>the originally-filed app</u></li> <li>The allowed claim(s) is/are <u>1-14</u>.</li> </ol>	olication papers.				
<ul><li>3.  The drawings filed on 18 January 2002 are accepted by the</li></ul>	e Examiner.				
4. Acknowledgment is made of a claim for foreign priority un					
a)  All b) Some* c) None of the:					
1. ☐ Certified copies of the priority documents have	been received.				
2. Certified copies of the priority documents have	been received in Application No	<u> </u>			
3. Copies of the certified copies of the priority doc	cuments have been received in this	national stage application from the			
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.					
(a) The translation of the foreign language provisional a		in the second second			
6. Acknowledgment is made of a claim for domestic priority un in the first sentence of the specification or in an Application	nder 35 U.S.C. §§ 120 and/or 121 si Data Sheet. 37 CFR 1.78.	nce a specific reference was included			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	this communication to file a reply co this application. THIS THREE-MON	omplying with the requirements noted NTH PERIOD IS NOT EXTENDABLE.			
7. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER' es reason(s) why the oath or declara	S AMENDMENT or NOTICE OF tion is deficient.			
8. CORRECTED DRAWINGS ( as "replacement sheets") mus (a) including changes required by the Notice of Draftspers		948) attached			
1)  hereto or 2)  to Paper No					
(b) ☐ including changes required by the proposed drawing c	orrection filed, which has be	en approved by the Examiner.			
(c) including changes required by the attached Examiner's	s Amendment / Comment or in the C	office action of Paper No			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawir he margin according to 37 CFR 1.121(	ngs in the front (not the back) of d).			
9.   DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR T	sit of BIOLOGICAL MATERIAL n HE DEPOSIT OF BIOLOGICAL MA	nust be submitted. Note the TERIAL.			
Attachm nt(s)		·			
1 ☐ Notice of References Cited (PTO-892)	<del></del>	tent Application (PTO-152)			
<ul> <li>2 Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3 Information Disclosure Statements (PTO-1449 or PTO/SB/08</li> </ul>	N =	PTO-413), Paper No			
Paper No. 2	/ Laminer's Amendin				
4☐ Examiner's Comment Regarding Requirement for Deposit		nt of Reasons for Allowance			
of Biological Material		DR. Roella			
		OBERT R. KOEHLER PRIMARY EXAMINER			
		ART UNIT 1775			

U.S. Patent and Trademark Office PTOL-37 (Rev. 11-03) Application/Control Number: 10/053,785

Art Unit: 1775

### **DETAILED ACTION**

# Allowable Subject Matter

Claims 1 to 14 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art does not teach, suggest, or disclose, either alone or in any combination, applicants' claimed method of forming a thin magnetic film of nickel-iron alloy on a substrate wherein the Ni-Fe alloy film contains 63% to 81% iron by weight, the aqueous plating solution contains more than four and less than seven Ni<sup>++</sup> ions for each Fe<sup>++</sup> ion, and the Ni-Fe electroplated layer is annealed in the presence of an external magnetic field.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Robert Koehler whose telephone number is (703) 308-1974. The Examiner can normally be reached on Tuesday to Friday from 8:30 AM to 6:00 PM. The Examiner can also be reached on alternate Mondays.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Deborah Jones, can be reached on (703) 308-3822. The fax phone number for this Art Unit is (703) 872-9306. Any inquiry of a general nature or relating to the status of this



Art Unit: 1775

application or proceeding should be directed to the Technology Center receptionist whose telephone number is (703) 308-0661.

ROBERT R. KOEHLER PRIMARY EXAMINER

Art Unit 1775 December 11, 2003